



# 1998 Toxics Release Inventory

## MARYLAND

### Reported Releases and Waste Management Activities (in pounds)

	Original Industries	New Industries	Total
On-site Releases	12,583,980	25,177,794	37,761,774
Air Emissions	8,213,866	24,852,361	33,066,227
Surface Water Discharges	2,375,596	132,775	2,508,371
Underground Injection Class I Wells	0	0	0
Underground Injection Class II-V Wells	0	45,000	45,000
On-site Land Releases to RCRA Subtitle C Landfills	0	0	0
Other On-site Land Releases	1,994,518	147,658	2,142,176
Off-site Releases (Transfers Off-site to Disposal)*	645,881	509,326	1,155,207
<b>Total On- and Off-site Releases</b>	<b>13,229,861</b>	<b>25,687,120</b>	<b>38,916,981</b>
Recycled On-site	25,867,890	2,043	25,869,933
Recycled Off-site	12,711,729	215,437	12,927,166
Energy Recovery On-site	13,281,742	0	13,281,742
Energy Recovery Off-site	905,351	635	905,986
Treated On-site	31,078,971	50,399,328	81,478,299
Treated Off-site**	9,597,164	1,485	9,598,649
Quantity Released On- and Off-site***	13,170,908	25,537,455	38,708,363
<b>Total Production-related Waste Managed</b>	<b>106,613,755</b>	<b>76,156,383</b>	<b>182,770,138</b>
<b>Total Non-production-related Waste Managed</b>	<b>85,946</b>	<b>128</b>	<b>86,074</b>

### Transfers Off-site for Further Waste Management/Disposal

Recycling	4,581,202	215,437	4,796,639
Energy Recovery	780,067	635	780,702
Treatment	6,347,938	1,212	6,349,150
Publicly Owned Treatment Works (POTWs)	2,942,836	0	2,942,836
Metals and Metal Compounds*	65,973	0	65,973
Non-metal TRI Chemicals**	2,876,863	0	2,876,863
Other Off-site Transfers***	0	0	0
Off-site Transfers to Disposal (not including metals to POTWs)	601,500	509,326	1,110,826
<b>Total Transfers Off-site for Further Waste Management/Disposal</b>	<b>15,253,543</b>	<b>726,610</b>	<b>15,980,153</b>

\* Transfers to POTWs of metals and metal compounds are included in off-site releases. Excludes transfer amounts sent for disposal to other TRI facilities reporting that amount released on-site.

\*\* Transfers to POTWs of non-metals are included in treated off-site waste management activity.

\*\*\* Excludes non-production-related releases; e.g. releases due to catastrophic events or remedial actions.

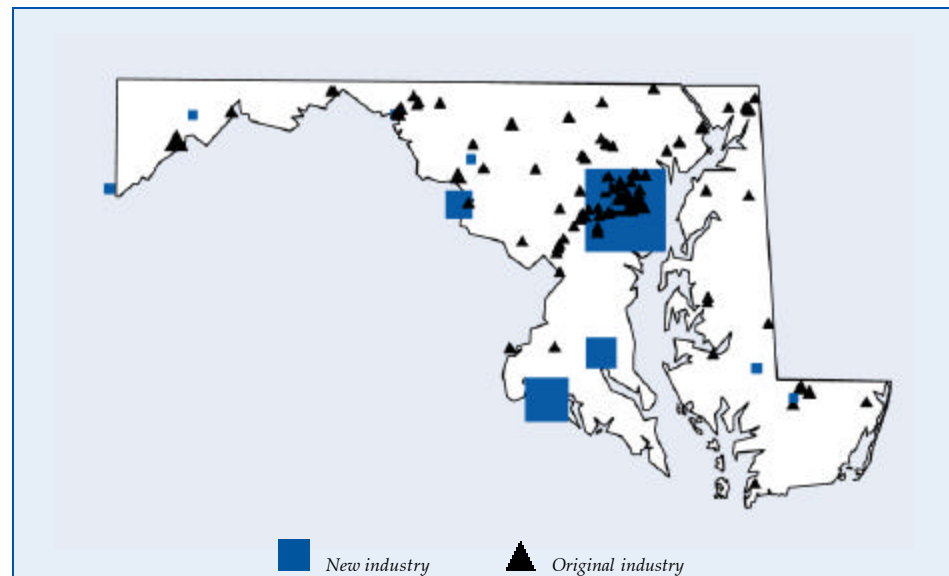
\*\*\*\* Transfers reported without a valid waste management code.

### For More Information . . .

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**To obtain TRI data use assistance, call  
TRI User Support Service (TRI-US):**  
(202) 260-1531  
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The largest marker in the state map represents the largest facility for on-site releases in the state of Maryland. All markers are proportionally-sized to represent the on-site releases at each facility within this state.

### State/TRI Data

Population	5,134,808
Square Miles	9,775
Total Facilities	208
Total Forms	711
Form As	170

	Original Industries	New Industries	Total
<b>National Rank for Total On- and Off-site Releases*</b>			
Rank	35	26	34
Pounds	13,229,861	25,687,120	38,916,981
<b>National Rank for Total On-site Releases**</b>			
Rank	35	26	31
Pounds	12,583,980	25,177,794	37,761,774
<b>National Rank for Total Releases within State***</b>			
Rank	36	26	32
Pounds	12,967,679	25,909,936	38,877,615
<b>National Rank for Production-related Waste Managed</b>			
Rank	34	21	34
Pounds	106,613,755	76,156,383	182,770,138

\* Includes transfers out-of-state for disposal. Excludes transfer amounts sent for disposal to other TRI facilities reporting that amount released on-site.

\*\* Includes amounts released at the facility. Excludes amounts transferred to other sites.

\*\*\* Excludes transfers for disposal sent out-of-state or sent to other TRI facilities within the state reporting that amount released on-site.



# 1998 Toxics Release Inventory

## MARYLAND

### On-site and Off-site Releases for Top Ten Chemicals Ranked on Total Releases in the State (Original Industries)

CAS Number	Chemical	On-site Releases				Off-site Releases	Total Releases in the State**	Off-site Transfers to Disposal		
		Air Emissions Pounds	Surface Water Discharges Pounds	Underground Injection Pounds	On-site Releases to Land Pounds	Transfers Off-site to Disposal* Pounds		Transferred Into State Pounds	Transferred Within State Pounds	Transferred Out of State Pounds
—	Nitrate compounds	10	2,059,512	0	105,987	12,232	2,177,741	0	12,229	3
—	Manganese compounds	29,508	192,873	0	1,639,961	38,752	1,901,094	5,883	29,591	9,161
463-58-1	Carbonyl sulfide	1,537,000	0	0	0	0	1,537,000	0	0	0
67-56-1	Methanol	768,467	0	0	0	0	768,467	0	0	0
1330-20-7	Xylene (mixed isomers)	620,199	2	0	0	0	620,201	3,023	0	0
7647-01-0	Hydrochloric acid	583,421	0	0	0	0	583,421	2,845	0	0
100-42-5	Styrene	574,005	0	0	0	3,462	577,467	0	2,965	497
7664-93-9	Sulfuric acid	464,000	0	0	0	0	464,000	0	0	0
7664-41-7	Ammonia	392,600	35,661	0	18,339	3,828	450,428	3	3,213	615
108-88-3	Toluene	409,213	1	0	5	1,316	410,535	193	0	1,316

\* Excludes amounts transferred to other TRI facilities in the state reporting that amount released on-site.

\*\* The chemical ranking is based on the amounts in this column.

### On-site and Off-site Releases for Top Ten Chemicals Ranked on Total Releases in the State (Seven New Industries)

CAS Number	Chemical	On-site Releases				Off-site Releases	Total Releases in the State**	Off-site Transfers to Disposal		
		Air Emissions Pounds	Surface Water Discharges Pounds	Underground Injection Pounds	On-site Releases to Land Pounds	Transfers Off-site to Disposal* Pounds		Transferred Into State Pounds	Transferred Within State Pounds	Transferred Out of State Pounds
7647-01-0	Hydrochloric acid	20,137,130	0	0	0	0	20,137,130	0	0	0
7664-93-9	Sulfuric acid	3,235,810	0	0	0	0	3,235,810	0	0	0
7664-39-3	Hydrogen fluoride	1,287,000	0	0	0	0	1,287,000	0	0	0
7440-39-3	Barium	5,815	60,250	0	56,500	211,000	333,565	160,000	211,000	0
—	Zinc compounds	9,116	225	0	22,900	86,400	118,641	1,522	85,000	1,400
7440-38-2	Arsenic	1,255	255	0	27,000	79,000	107,510	0	79,000	0
7439-96-5	Manganese	2,305	38,005	0	13,300	40,000	93,610	8,600	40,000	0
7440-47-3	Chromium	1,505	25,005	0	14,400	44,000	84,910	0	44,000	0
7440-02-0	Nickel	34,250	1,105	0	5,750	27,000	68,105	0	27,000	0
1634-04-4	Methyl tert-butyl ether	60,137	320	0	22	57	60,536	1,030	33	24

\* Excludes amounts transferred to other TRI facilities in the state reporting that amount released on-site.

\*\* The chemical ranking is based on the amounts in this column.



# 1998 Toxics Release Inventory

## MARYLAND

### On- and Off-site Releases for Top Ten Facilities Ranked on Total On-site Releases in the State (Original Industries)

Facility, City, County	On-site Releases						Total On-site Releases* Pounds	Off-site Releases (Transfers Off-site to Disposal)	
	Underground Injection			On-site Releases to Land				Transferred Within State Pounds	Transferred Out of State Pounds
	Air Emissions Pounds	Surface Water Discharges Pounds	Class I Wells Pounds	Class II-V Wells Pounds	RCRA Subtitle C Landfills Pounds	Other On-site Land Releases Pounds			
Millennium Inorganic Chemicals Inc. — Hawkins Point Plant, Baltimore, Baltimore City	1,019,338	100,000	0	0	0	710,000	1,829,338	0	0
Grace Davison, Baltimore, Baltimore City	259,417	1,450,954	0	0	0	0	1,710,371	13,564	7,740
Westvaco Corp. Fine Papers Div., Luke, Allegany	1,485,915	0	0	0	0	8,800	1,494,715	120,700	0
Bethlehem Steel Corp. Sparrows Point Div., Sparrows Point, Baltimore	149,200	159,000	0	0	0	1,144,500	1,452,700	0	100,005
Eastalco Aluminum Co., Frederick, Frederick	696,650	10	0	0	0	0	696,660	0	0
Chemetals Inc., Baltimore Plant, Baltimore, Baltimore City	24,229	516,946	0	0	0	24,736	565,911	193	0
GMC North American Truck Group, Baltimore, Baltimore City	464,296	715	0	0	0	0	465,011	275	2,625
Terumo Medical Corp., Elkton, Cecil	337,361	0	0	0	0	0	337,361	0	0
Lehigh Portland Cement Co., Union Bridge, Carroll	315,755	0	0	0	0	3,300	319,055	0	0
Salisbury (ZCR) Feed & Grain Facility #52, Salisbury, Wicomico	318,000	0	0	0	0	0	318,000	0	0

\*The facility ranking is based on the amounts in this column; these quantities exclude transfers out of state.

### On- and Off-site Releases for Top Ten Facilities Ranked on Total On-site Releases in the State (Seven New Industries)

Facility, City, County	On-site Releases						Total On-site Releases * Pounds	Off-site Releases (Transfers Off-site to Disposal)	
	Underground Injection				On-site Releases to Land			Transferred Within State Pounds	Transferred Out of State Pounds
	Air Emissions Pounds	Surface Water Discharges Pounds	Class I Wells Pounds	Class II-V Wells Pounds	RCRA Subtitle C Landfills Pounds	Other On-site Land Releases Pounds			
Brandon Shores & Wagner Complex, Baltimore, Anne Arundel	11,434,848	5,065	0	0	0	3,032	11,442,945	0	7,100
Pepco Morgantown Generating Station, Newburg, Charles	5,280,870	525	0	0	0	73,800	5,355,195	242,000	0
Pepco Chalk Point Generating Station, Aquasco, Prince Georges	3,306,575	32,105	0	0	0	5,850	3,344,530	85,000	0
Dickerson Generating Station, Dickerson, Montgomery	2,633,770	92,010	0	0	0	64,600	2,790,380	175,000	0
C. P. Crane Generating Station, Baltimore, Baltimore City	1,823,604	20	0	0	0	0	1,823,624	0	0
R. Paul Smith Power Station, Williamsport, Washington	152,152	0	0	0	0	0	152,152	0	0
Vienna Power Plant, Vienna, Dorchester	85,788	0	0	0	0	0	85,788	0	0
Mettiki Coal Corp., Oakland, Garrett	7,001	1,450	0	45,000	0	260	53,711	0	0
Baltimore Terminal, Baltimore, Baltimore City	34,799	78	0	0	0	0	34,877	85	14
Gould Street Generating Station, Baltimore, Baltimore City	32,000	0	0	0	0	0	32,000	0	0

\*The facility ranking is based on the amounts in this column; these quantities exclude transfers out of state.



# 1998 Toxics Release Inventory

## MARYLAND

### Total Production-related Waste for Top Ten Facilities Ranked on Quantity Released On- and Off-site (Original Industries)

Facility, City, County	Recycled On-site Pounds	Recycled Off-site Pounds	Energy Recovery On-site Pounds	Energy Recovery Off-site Pounds	Treated On-site Pounds	Treated Off-site Pounds	Quantity Released On- and Off-site*	Total Production- related Waste Managed Pounds	Total Non- Production- related Waste Managed Pounds
Millennium Inorganic Chemicals Inc. — Hawkins Point Plant, Baltimore, Baltimore City	0	0	0	0	3,700,215	0	1,829,338	5,529,553	0
Grace Davison, Baltimore, Baltimore City	6,325,400	26,240	0	0	5,148,700	247	1,732,710	13,233,297	0
Westvaco Corp. Fine Papers Div., Luke, Allegany	0	0	11,338,500	0	2,906,000	2,418,440	1,615,430	18,278,370	0
Bethlehem Steel Corp. Sparrows Point Div., Sparrows Point, Baltimore	0	0	0	0	0	0	1,526,600	1,526,600	0
Eastalco Aluminum Co., Frederick, Frederick	13,027,000	7,000,000	0	0	2,692,000	0	695,938	23,414,938	0
Chemetals Inc., Baltimore Plant, Baltimore, Baltimore City	1,646,372	1,098,327	0	0	200	0	566,105	3,311,004	0
GMC North American Truck Group, Baltimore, Baltimore City	0	434,057	0	4,515	102,127	5,045	481,718	1,027,462	0
Garden State Tanning Inc., W.D. Byron Plant, Williamsport, Washington	0	80,236	0	0	545,946	0	363,125	989,307	0
Terumo Medical Corp., Elkton, Cecil	0	0	0	0	0	56,577	337,360	393,937	0
Lehigh Portland Cement Co., Union Bridge, Carroll	0	0	0	0	0	0	318,500	318,500	0

\*The facility ranking is based on the amounts in this column; these quantities exclude non-production-related releases.

### Total Production-related Waste for Top Ten Facilities Ranked on Quantity Released On- and Off-site (Seven New Industries)

Facility, City, County	Recycled On-site Pounds	Recycled Off-site Pounds	Energy Recovery On-site Pounds	Energy Recovery Off-site Pounds	Treated On-site Pounds	Treated Off-site Pounds	Quantity Released On- and Off-site*	Total Production- related Waste Managed Pounds	Total Non- Production- related Waste Managed Pounds
Brandon Shores & Wagner Complex, Baltimore, Anne Arundel	0	0	0	0	0	0	11,450,045	11,450,045	0
Pepco Morgantown Generating Station, Newburg, Charles	0	0	0	0	294,520	0	5,598,003	5,892,523	1
Pepco Chalk Point Generating Station, Aquasco, Prince Georges	0	0	0	0	49,545,708	445	3,429,006	52,975,159	1
Dickerson Generating Station, Dickerson, Montgomery	0	0	0	0	429,000	0	2,830,000	3,259,000	0
C. P. Crane Generating Station, Baltimore, Baltimore City	0	0	0	0	0	0	1,823,624	1,823,624	0
R. Paul Smith Power Station, Williamsport, Washington	0	0	0	0	0	0	152,000	152,000	0
Vienna Power Plant, Vienna, Dorchester	0	0	0	0	0	0	85,788	85,788	0
Mettiki Coal Corp., Oakland, Garrett	0	0	0	0	49,000	0	53,500	102,500	0
Baltimore Terminal, Baltimore, Baltimore City	0	0	0	0	0	908	35,933	36,841	0
Gould Street Generating Station, Baltimore, Baltimore City	0	0	0	0	0	0	32,000	32,000	0

\*The facility ranking is based on the amounts in this column; these quantities exclude non-production-related releases.